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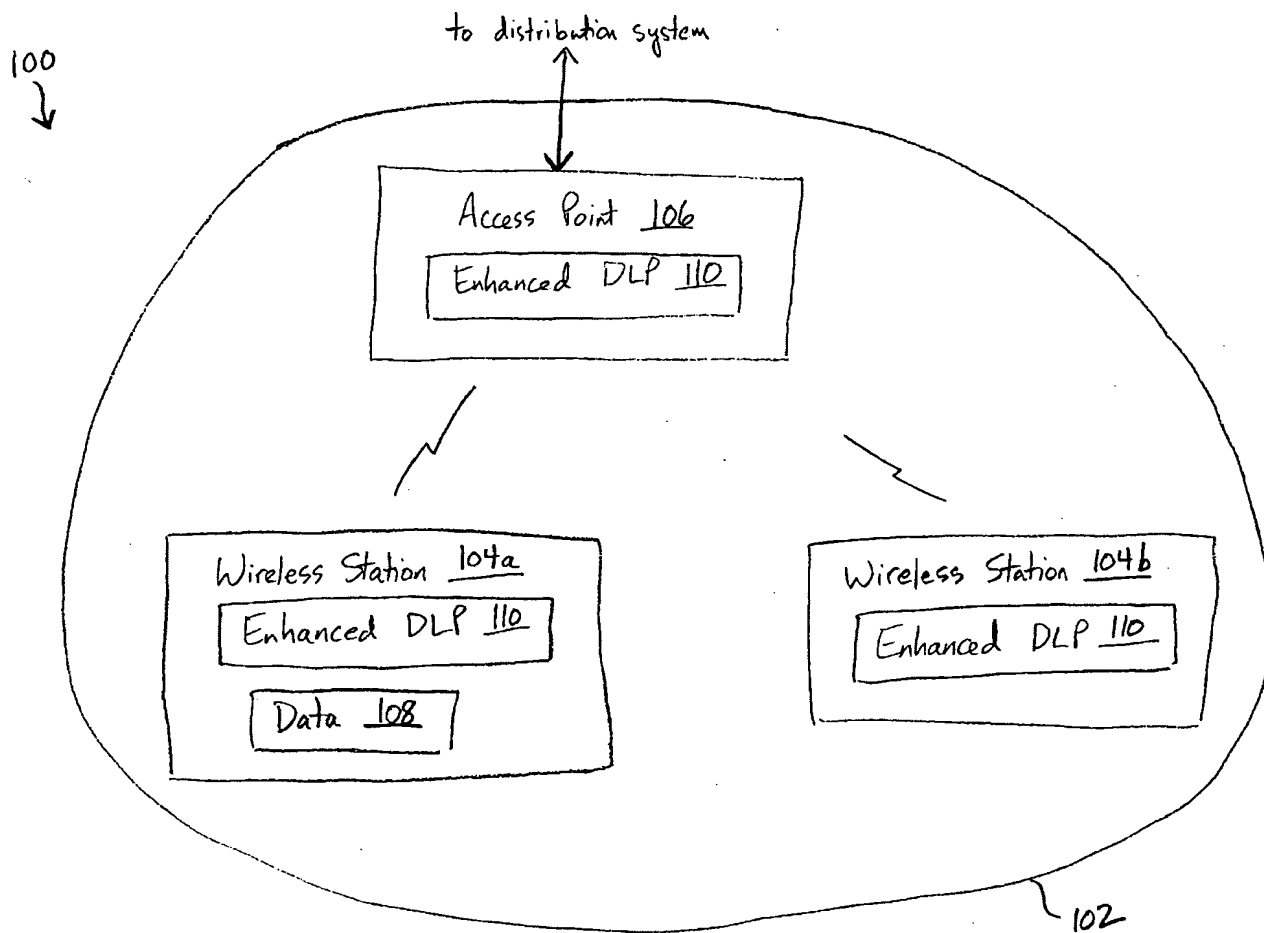


FIG. 1

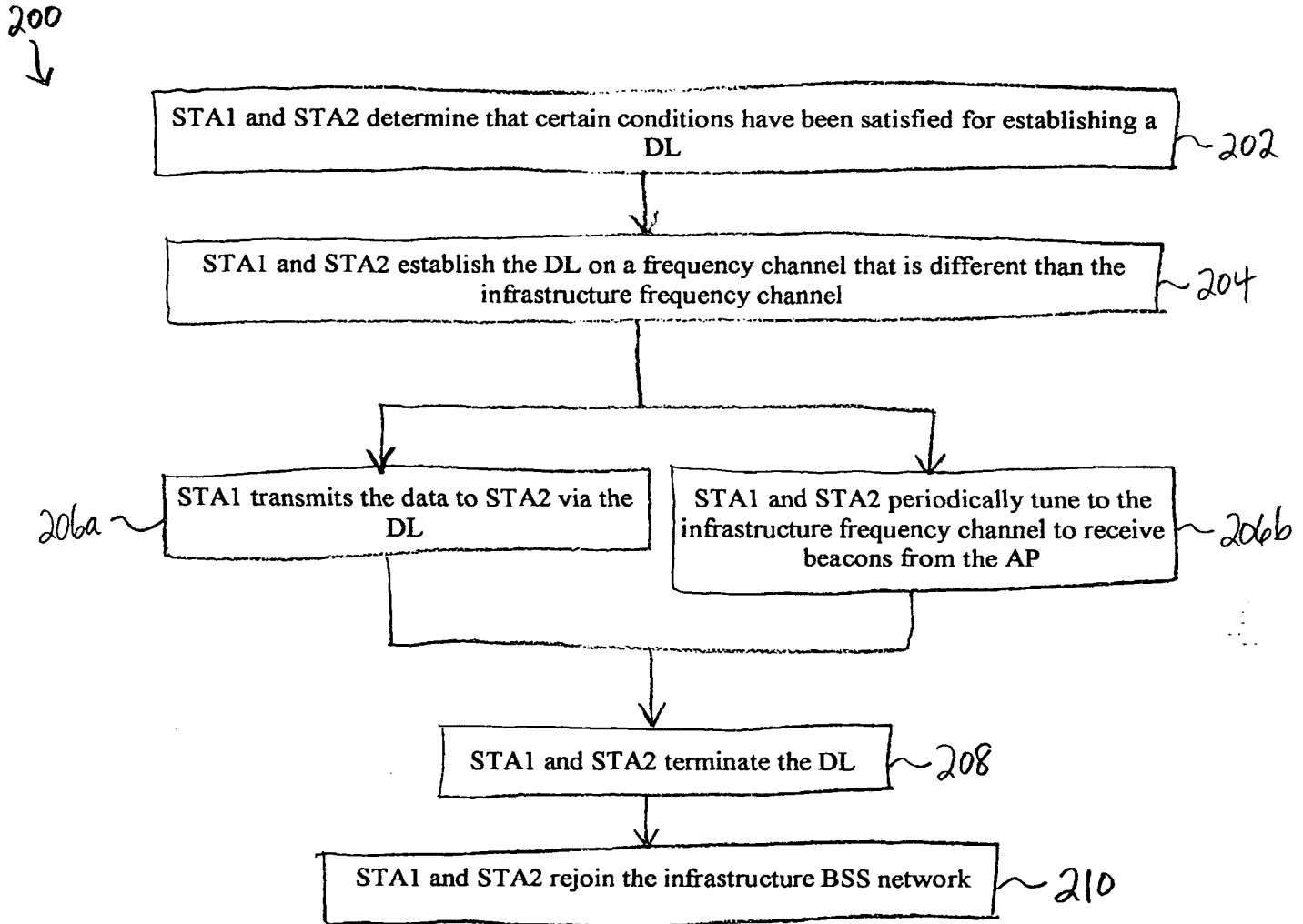


FIG. 2

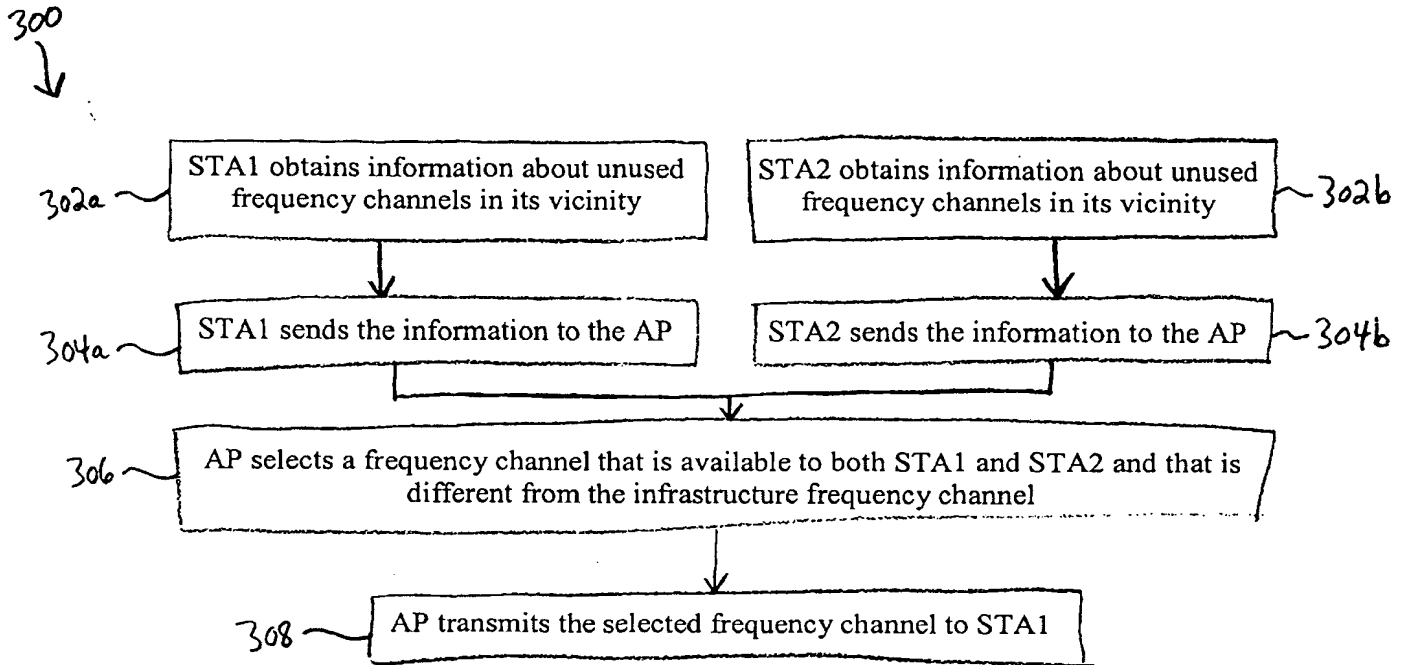


FIG. 3

400 ↗

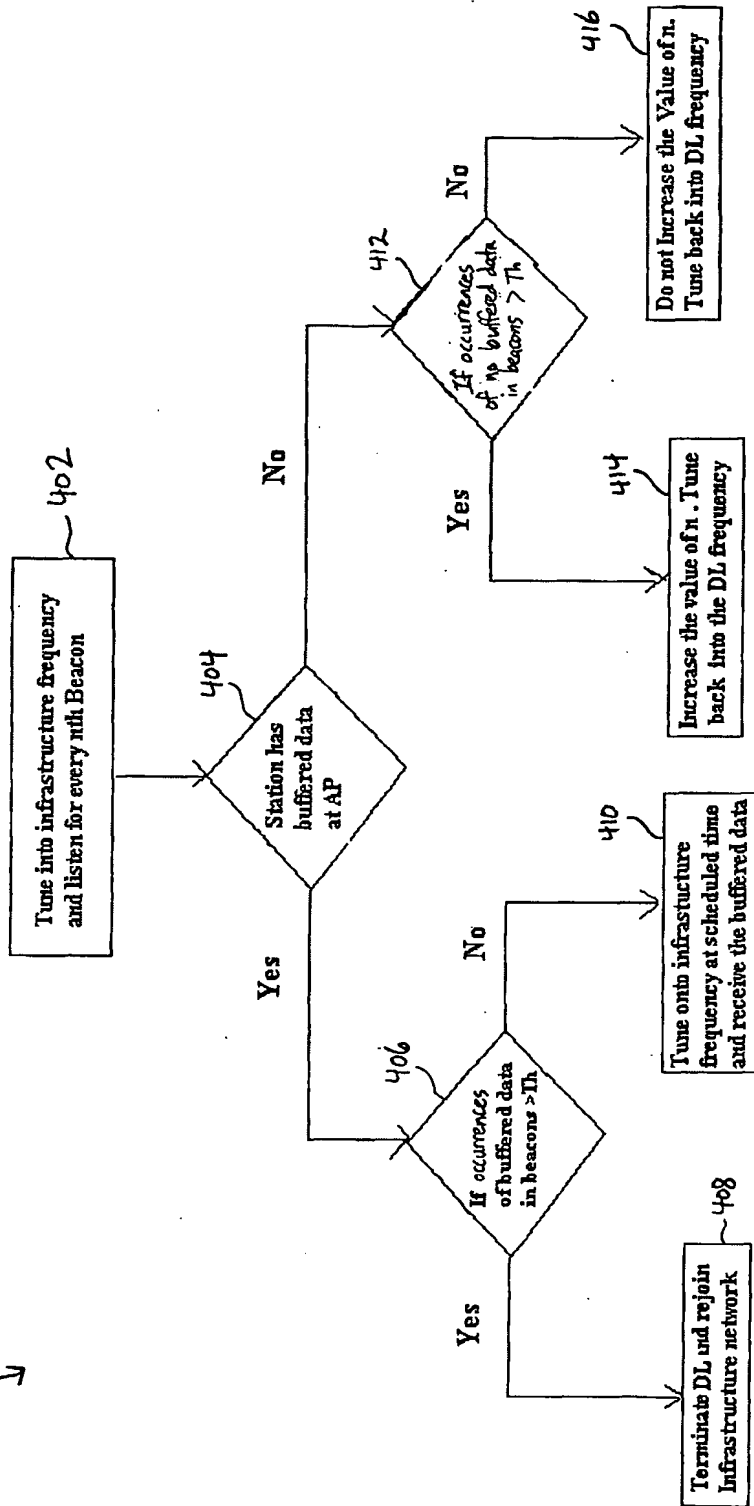


FIG. 4

500

Source STA (STA1)

The MAC SAP of STA1 sets a counter (n) for consecutive frames having the same destination MAC address.

If $n > Th$ & Dest is in the same BSS

Don't initiate DL req, Use the infrastructure channel

Yes

Check for a free channel in the vicinity and negotiate with the AP for a common channel which is free for STA1, STA2 and the AP.

Yes

STAs exchange a DL Initiation Handshake Through the AP

STAs tune onto DL freq and establish the DL

No

If a free channel is found

No

Don't establish a DL. Use the Infrastructure Network

Dest STA (STA2)

The MAC SAP of STA2 sets a counter (m) for consecutive frames having the same source MAC address.

If $m > Th$ & Source is in the same BSS

Yes

Check for a free channel in the vicinity and negotiate with the AP for a common channel which is free for STA1, STA2 and the AP.

No

Reject the DL if requested by STA1

Th = Threshold value (a design feature)

FIG. 5

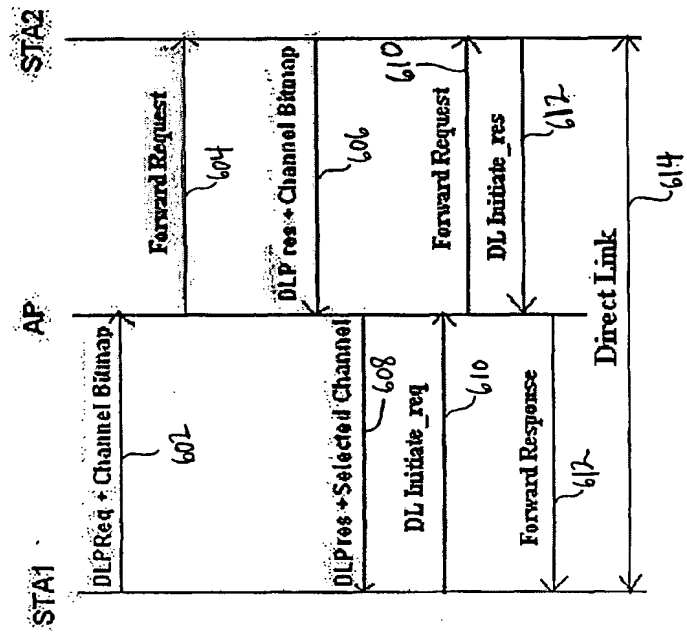


FIG. 6

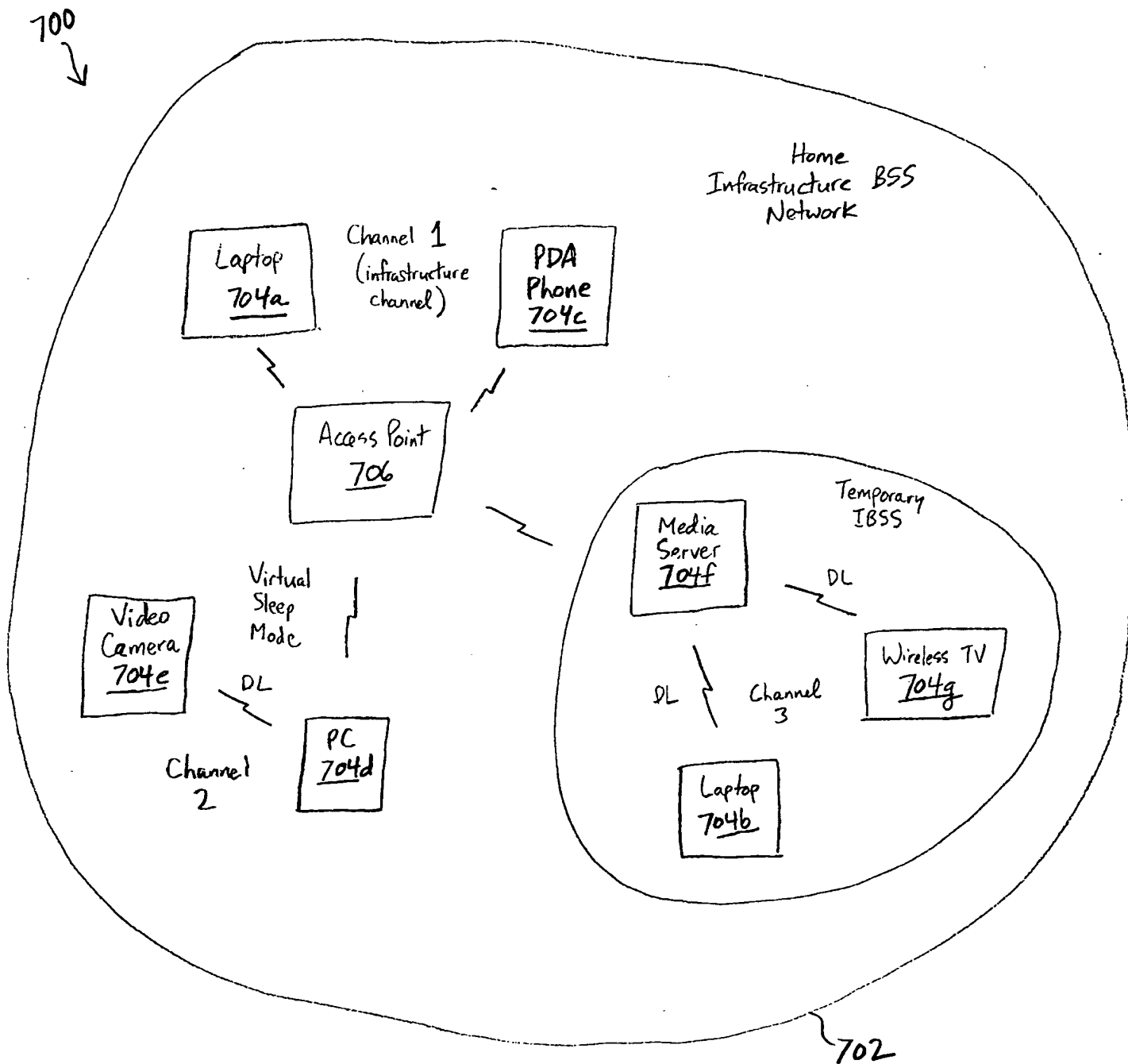


FIG. 7

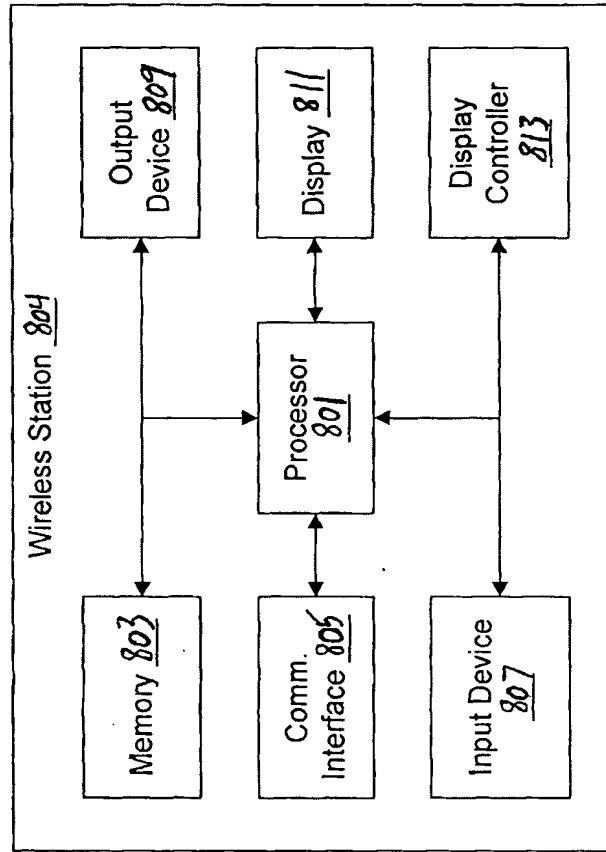


FIG. 8